UNITED STATES PATENT AND TRADEMARK OFFICE

NOTICE OF ALLOWANCE AND FEE(S) DUE

22801	7590	10/30/2008

LEE & HAYES PLLC
601 W Riverside Avenue
Suite 1400
SPOKANE, WA 99201

EXAMINER
CHANKONG, DOHM

ART UNIT	PAPER NUMBER
2452	

DATE MAILED: 10/30/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,181	11/24/2003	Tad Dennis Brockway	MS1-1787US	7006

TITLE OF INVENTION: SEAMLESS DISCOVERY OF WORKSTATION-INSTALLED REMOTE APPLICATIONS FROM AN EXTRANET

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$300	$0	$1810	01/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: <u>Mail</u> Mail Stop ISSUE FEE
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22801   7590   10/30/2008

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

_____ (Depositor's name)
_____ (Signature)
_____ (Date)

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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$300	$0	$1810	01/30/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHANKONG, DOHM	2452	709-200000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE   (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

☐ A check is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____   Date _____

Typed or printed name _____   Registration No. _____

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.   OMB 0651-0033   U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES DEPARTMENT OF COMMERCE
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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

	Application No.	Applicant(s)
Notice of Allowability	10/722,181	BROCKWAY ET AL.
	Examiner	Art Unit
	DOHM CHANKONG	2452

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *Applicant's amendment, filed on 7/16/2008*.

2. ☒ The allowed claim(s) is/are *1,2,5-8,11-14,17-20,23 and 24*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

        a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

            1. ☐ Certified copies of the priority documents have been received.

            2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

            3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the

               International Bureau (PCT Rule 17.2(a)).

      * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

        Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08),
    Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit
    of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413),
    Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

/Dohm Chankong/
Primary Examiner, Art Unit 2452

EXAMINER'S AMENDMENT

1.   Claims 1-2, 5-8, 11-14, 17-20, and 23-24 are presented for further examination.

2.   An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Jason Lindh on 10/27/2008.

3.   The application has been amended as follows:

Claim 1 (Currently Amended): A method implemented at least in part by a computing device for

enumerating applications by a remote client computer, the applications being deployed in an

Intranet, the remote client computer being external to the Intranet, the method comprising:

sending a remote application discovery request from the remote client computer to a Web

service using simple object access protocol (SOAP), the Web service being deployed on a

remote applications publication (RAP) Web server in the Intranet, the remote application

discovery request being sent to the Web service by the remote client computer via a public

network coupling the remote client computer to the Web server; and

responsive to the sending, receiving a discovery response from the Web service, the

discovery response identifying an aggregate list of remote applications across multiple accessor

modules installed on the Intranet for terminal server (TS) based access by a user of the remote

client computer. wherein the multiple accessor modules comprise:

a System Management Server (SMS) accessor, wherein the SMS accessor sends a

get application request to a System Management Server (SMS) having a domain,

wherein, upon receiving the get application request, the SMS evaluates whether the

remote client computer is associated with any applications deployed within the domain of

the SMS;

if the remote client computer is associated with at least an application, the

SMS sends a get application response to the SMS accessor, wherein the get

application response identifies the associated application and ~~the~~ an associated

application installation point;

a Directory Service Accessor (DSA), wherein the DSA sends a get application

request to a directory service, wherein the directory service, responsive to receiving the

get application request, evaluates an installed application-to-user mapping to determine

whether the remote client computer is associated with installed applications, wherein,

upon completion of the evaluation, the directory service sends an evaluation and any

respective installation point of any associated installed application to the Web service;

and

a Personal Computer (PC) accessor, wherein the PC accessor identifies an Intranet

address of the office computer assigned to a user associated with the remote client

computer and sends a get resource request to directory service, wherein the get resource

request indicates a corporate identity of the user, the directory service, responsive to

receiving the get application request, communicates the ~~network~~ Intranet address of the

office computer to the PC accessor.

Claim 7 (Currently Amended): A computer-~~readable~~ storage medium comprising computer-

executable instructions for enumerating applications by a remote client computer, the

applications being deployed in an Intranet, the remote client computer being external to the

Intranet, the computer-executable instructions comprising instructions for:

sending a remote application discovery request from the remote client computer to a Web

service using simple object access protocol (SOAP), the Web service being deployed on a

remote applications publication (RAP) Web server in the Intranet, the remote application

discovery request being sent to the Web service by the remote client computer via a public

network coupling the remote client computer to the Web server; and

responsive to the sending, receiving a discovery response from the Web service, the

discovery response identifying an aggregate list of remote applications across multiple accessor

modules installed on the Intranet for terminal server (TS) based access by a user of the remote

client computer. wherein the multiple accessor modules comprise:

a System Management Server (SMS) accessor, wherein the SMS accessor sends a

get application request to a System Management Server (SMS) having a domain,

wherein, upon receiving the get application request, the SMS evaluates whether the

remote client computer is associated with any applications deployed within the domain of

the SMS;

if the remote client computer is associated with at least an application, the

SMS sends a get application response to the SMS accessor, wherein the get

application response identifies the associated application and ~~the~~ an associated

application installation point;

a Directory Service Accessor (DSA), wherein the DSA sends a get application

request to a directory service, wherein the directory service, responsive to receiving the

get application request, evaluates an installed application-to-user mapping to determine

whether the remote client computer is associated with installed applications, wherein,

upon completion of the evaluation, the directory service sends an evaluation and any

respective installation point of any associated installed application to the Web service;

and

a Personal Computer (PC) accessor, wherein the PC accessor identifies an Intranet

address of the office computer assigned to a user associated with the remote client

computer and sends a get resource request to directory service, wherein the get resource

request indicates a corporate identity of the user, the directory service, responsive to

receiving the get application request, communicates the ~~network~~ Intranet address of the

office computer to the PC accessor.

Claim 8 (Currently Amended): A computer-~~readable~~ storage medium as recited in claim 7,

wherein the instructions for sending and receiving are independent of a Virtual Private Network

connection between the remote client computer and the Intranet.

Claim 11. (Currently Amended) A computer-~~readable~~ storage medium as recited in claim 7,

wherein the computer-executable instructions further comprise, responsive to receiving the

discovery response from the Web service, instructions for presenting respective shortcuts to the

user, each shortcut corresponding to an individual one of remote applications identified in the

discovery response, each shortcut being selectable by the user to invoke a terminal service, the

terminal service executing a corresponding remote application on an associated installation point

on the Intranet.

12. (Original) A computer-~~readable~~ storage medium as recited in claim 11, wherein the shortcuts

represent a merged view of the remote applications, the merged view being independent of

respective ones of one or more installations points on the Intranet.

Claim 13 (Currently Amended): A remote client computer for enumerating applications

deployed in an Intranet, the remote client computer being deployed external to the Intranet, the

remote client computer comprising:

      a processor; and

      a memory coupled to the processor, the memory comprising computer-program

instructions executable by the processor and comprising instructions for:

      sending a remote application discovery request from the remote client computer to a Web

service using simple object access protocol (SOAP), the Web service being deployed on a

remote applications publication (RAP) Web server in the Intranet, the remote application

discovery request being sent to the Web service by the remote client computer via a public

network coupling the remote client computer to the Web server; and

      responsive to the sending, receiving a discovery response from the Web service, the

discovery response identifying an aggregate list of remote applications across multiple accessor

modules installed on the Intranet for terminal server (TS) based access by a user of the remote

client computer. wherein the multiple accessor modules comprise:

            a System Management Server (SMS) accessor, wherein the SMS accessor sends a

            get application request to a System Management Server (SMS) having a domain,

            wherein, upon receiving the get application request, the SMS evaluates whether the

            remote client computer is associated with any applications deployed within the domain of

            the SMS;

                  if the remote client computer is associated with at least an application, the

                SMS sends a get application response to the SMS accessor, wherein the get

                application response identifies the associated application and ~~the~~ an associated

                application installation point;

            a Directory Service Accessor (DSA), wherein the DSA sends a get application

            request to a directory service, wherein the directory service, responsive to receiving the

            get application request, evaluates an installed application-to-user mapping to determine

            whether the remote client computer is associated with installed applications, wherein,

            upon completion of the evaluation, the directory service sends an evaluation and any

            respective installation point of any associated installed application to the Web service;

            and

a Personal Computer (PC) accessor, wherein the PC accessor identifies an Intranet

address of the office computer assigned to a user associated with the remote client

computer and sends a get resource request to directory service, wherein the get resource

request indicates a corporate identity of the user, the directory service, responsive to

receiving the get application request, communicates the ~~network~~ Intranet address of the

office computer to the PC accessor.

Claim 19 (Currently amended): A remote client computer for enumerating applications deployed

in an Intranet, the remote client computer being deployed external to the Intranet, the remote

client computer comprising:

means for sending a remote application discovery request from the remote client

computer to a Web service using simple object access protocol (SOAP), the Web service being

deployed on a remote applications publication (RAP) Web server in the Intranet, the remote

application discovery request being sent to the Web service by the remote client computer via a

public network coupling the remote client computer to the Web server; and

means for responsive to the sending, receiving a discovery response from the Web

service, the discovery response identifying an aggregate list of remote applications across

multiple accessor modules installed on the Intranet for terminal server (TS) based access by a

user of the remote client computer. wherein the multiple accessor modules comprise:

a System Management Server (SMS) accessor, wherein the SMS accessor sends a

get application request to a System Management Server (SMS) having a domain,

wherein, upon receiving the get application request, the SMS evaluates whether the

remote client computer is associated with any applications deployed within the domain of

the SMS;

if the remote client computer is associated with at least an application, the

SMS sends a get application response to the SMS accessor, wherein the get

application response identifies the associated application and ~~the~~ an associated

application installation point;

a Directory Service Accessor (DSA), wherein the DSA sends a get application

request to a directory service, wherein the directory service, responsive to receiving the

get application request, evaluates an installed application-to-user mapping to determine

whether the remote client computer is associated with installed applications, wherein,

upon completion of the evaluation, the directory service sends an evaluation and any

respective installation point of any associated installed application to the Web service;

and

a Personal Computer (PC) accessor, wherein the PC accessor identifies an Intranet

address of the office computer assigned to a user associated with the remote client

computer and sends a get resource request to directory service, wherein the get resource

request indicates a corporate identity of the user, the directory service, responsive to

receiving the get application request, communicates the ~~network~~ Intranet address of the

office computer to the PC accessor.

4.   The following is an examiner's statement of reasons for allowance:

Claims 1, 7, 13, and 19 distinguish themselves over the prior art by delineating a method,

storage medium or remote client computer for discovering and aggregating various remote applications from an Intranet and associated with the client computer using specific modules to access the application sources. The claims state the need for three separate modules used for accessing three different elements in the Intranet where the elements provide information regarding whether the remote client is associated with any applications in the domain of a server management server, installed applications of the Intranet, and whether the client is associated with an Intranet address of an office computer and where the information is culled from different sources in the Intranet. Other important feature of the claim is the sending of associated application installation points. Based on the combination of these claimed features, the claims show a patentable distinction over the prior art. Furthermore, there is no indication from the prior art that it would have been obvious to discover and aggregate remote applications using at least the three specific and separate modules in the fashion presented in the independent claims. Claims 2, 5, 6, 8, 11, 12, 14, 17, 18, 20, and 23-24 are allowed based on their dependence on the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

DeBettencourt et al, US 6279001;

Slaughter et al, US 6898618;

Slaughter et al, US 6970869;

Belfiore et al, US 6990514;

Dyla et al, US Publication 2002|0116454;

Fletcher et al, US Publication 2003|0135628;

Sturtevant et al, US 7072936;

Wookey et al, US 7240109;

Harjanto, US 7296022.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to **DOHM CHANKONG** whose telephone number is (571)272-

3942. The examiner can normally be reached on Monday-Friday [8:30 AM to 4:30 PM].

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bunjob Jaroenchonwanit can be reached on 571.272.3913. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dohm Chankong/
Primary Examiner, Art Unit 2452